

	TRADELA	SEQUENC	E LISTING	J2d 5123		
<110>	Plath, Thomas Reule, Matthia Kaiser, Simone Lichtner, Rose Heiden Constar	e emarie	Esmeralda			
<120>	USE OF A TRPM8	-ACTIVATING	SUBSTANCE	FOR THE TRE	ATMENT OF TU	IMORS
<130>	7003/40, PLA/L	ıs/0502				
	US 10/539,874 2003-12-16					
	DE 10259619.0 2002-12-18					
<160>	17					
<170>	PatentIn versi	on 3.2				
<210> <211> <212> <213>	1 1000 DNA Homo sapiens					
	1					
	gggt gaaagaaaat					60
	agcc aggctcagca					120
	ctcc agcgcgtctc					180
	tcaa gcaaatttta					240
	gaat gtgtgcaagt					300
	aagt gagaaatgga					360
	tatt cagtttgaga					420
cacggad	gcg gaaatccttt	acgagctgct	gacccagcac	tggcacctga	aaacacccaa	480
cctggt	att tctgtgaccg	ggggcgccaa	gaacttcgcc	ctgaagccgc	gcatgcgcaa	540
gatctto	agc cggctcatct	acatcgcgca	gtccaaaggt	gcttggattc	tcacgggagg	600
cacccat	tat ggcctgatga	agtacatcgg	ggaggtggtg	agagataaca	ccatcagcag	660
gagttca	agag gagaatattg	tggccattgg	catagcagct	tggggcatgg	tctccaaccg	720
ggacaco	ctc atcaggaatt	gcgatgctga	ggtaccggtg	ggacaggagg	aggtctgcta	780
ggtcaca	itgg aagaaagacc	atggcatggg	cctgtggcct	gaaccctggg	gctctgtgat	840
ggagcca	gcc agatcatggg	gaagtctgcc	tttcaaggag	tgcctttggg	accttaaagg	900
aattgaa	aac aaggatgacg	tacctaatta	actgctggga	aagagttaac	aatgaatgtt	960
ttgttca	tta aaatgtgttc	tcagcaaaaa	aaaaaaaaa			1000

<210> 2 <211> 391 <212> DNA <213> Homo sapiens	
<400> 2 gccgactact actacctact actactaaat tcacggccgg tcgactgaag acttggcaga	60
acagctgctg gtctattcct gtgaagcttg gggtggaagc aactgtctgg agctggcggt	120
ggaggccaca gaccagcatt tcatcgccca gcctggggtc cagaattttc tttctaagca	180
atggtatgga gagatttccc gagacaccaa gaactggaag attatcctgt gtctgtttat	240
tatacccttg gtgggctgtg gctttgtatc atttaggtac aaaccaaggc acataatcgt	300
gtgtgagtgt gtgtgccagt gtgtgtacat gcatccacat atgtgtgctc tcatgtaaat	360
gattaaaaag cctggaactt aaaaaaaaaa a	391
<210> 3 <211> 2136 <212> DNA <213> Homo sapiens <400> 3	
ggactacatt attttcactc taagattgat ccacattttt actgtaagca gaaacttagg	60
agccaagatt ataatgctgc agaggatgct gatcgatgtg ttcttcttcc tgttcctctt	120
tgcggtgtgg atggtggcct ttgcgtggcc aggcaaggga tccttaggca gaatgagcag	180
cgctggaggt ggatattccg ttcggtcatc tacgagccct acctggccat gttcggccag	240
gtgcccagtg acgtggatgg taagcctgac ttggctcaga tggaaacagc ttggaggagg	300
catttgctcc ctgaaccaac ccccagggct gccccggaga ccgcacttca gaagcacgcg	360
cgtgaaacgg agtccaacat aacagagtac cacgtatgac tttgcccact gcaccttcac	420
tgggaatgag tccaagccta ctgtgtgtgg agctggatga gcacaacctg ccccggttcc	480
ccgagtggat caccatcccc ctggtgtgca tctacatgtt atccaccaac atcctgctgg	540
tcaacctgct ggtcgccatg tttggctaca cggtgggcac cgtccagaga acaatgacca	600
ggtctggaag ttccagaggt acttcctggt gcaggagtac tgcagccgcc tcaatatccc	660
cttccccttc atcgtcttcg cttacttcta catggtggtg aagaagtgct tcaagtgttg	720
ctgcaaggag aaaaacatgg agtcttctgt ctgctgtttc aaaaatgaag acaatgagac	780
tctggcatgg gagggtgtca tgaaggaaaa ctaccttgtc aagatcaaca caaaagccaa	840
cgacacctca gaggaaatga ggcatcgatt tagacaactg gatacaaagc ttaatgatct	900
caagggtctt ctgaaagaga ttgctaataa aatcaaataa aactgtatga actctaatgg	960
agaaaaatct aattatagca agatcatatt aaggaatgct gatgaacaat tttgctatcg	.020
actactaaat gagagatttt cagacccctg ggtacatggt ggatgatttt aaatcaccct 1	080

agtgtgctga gaccttgaga	ataaagtgtg	PLA_US_050 tgattggttt		gacggatata	1140
aaggaagaat atttccttta	tgtgtttctc	cagaatggtg	cctgtttctc	tctgtgtctc	1200
aatgcctggg actggaggtt	gatagtttaa	gtgtgttctt	accgcctcct	ttttccttta	1260
atcttatttt tgatgaacac	atatatagga	gaacatctat	cctatgaata	agaacctggt	1320
catgctttac tcctgtattg	ttattttgtt	catttccaat	tgattctcta	cttttccctt	1380
ttttgtatta tgtgactaat	tagttggcat	attgttaaaa	gtctctcaaa	ttaggccaga	1440
ttctaaaaca tgctgcagca	agaggacccc	gctctcttca	ggaaaagtgt	tttcatttct	1500
caggatgctt cttacctgtc	agaggaggtg	acaaggcagt	ctcttgctct	cttggactca	1560
ccaggctcct attgaaggaa	ccacccccat	tcctaaatat	gtgaaaagtc	gcccaaaatg	1620
caaccttgaa aggcactact	gactttgttc	ttattggata	ctcctcttat	ttattatttt	1680
tccattaaaa ataatagctg	gctattatag	aaatttagac	catacagaga	tgtagaaaga	1740
acataaattg tccccattac	cttaaggtaa	tcactgctaa	caatttctgg	atggttttc	1800
aagtctattt tttttctatg	tatgtctcaa	ttctctttca	aaattttaca	gaatgttatc	1860
atactacata tatacttttt	atgtaagctt	tttcacttag	tattttatca	aatatgtttt	1920
tattatattc atagccttct	taaacattat	atcaataatt	gcataatagg	caacctctag	1980
cgattaccat aattttgctc	attgaaggct	atctccagtt	gatcattggg	atgagcatct	2040
ttgtgcatga atcctattgc	tgtatttggg	aaaattttcc	aaggttagat	tccaataaat	2100
atctatttat tattcaatat	taaaaaaaaa	aaaaaa			2136
<210> 4 <211> 1813 <212> DNA <213> Homo sapiens					
<400> 4 gctagaattt accagtaagc	catctgattt	cccagtaagc	catcctgggc	ttttctttgt	60
tgaaagcttt ttgattgctg	attttcattt	tcttcatttg	ttgtttgtct	gttcaggctt	120
tgtatttctt cttgattcag	gtctttgtaa	gttgtacatt	tctgggatat	ttccatttct	180
tctaggttgt ccaccttgtt	tgcatataat	tgttcatact	agccccttct	gatccctttc	240
atttctatgc cctctgttgt	aaggttgtct	ttctcatttc	tgactgtatt	tatttgtatc	300
ttcttccttt tcttaaaagg	tttgttgatt	ttgtttatct	tttcaaaaaa	ccaactctta	360
ctttcaatga tttttttcc	cattgttttt	caactctctt	ttttaaaaat	gtattttgct	420
cttggagttt ttgctctact	ttaaacagct	tactaaagtc	attttactat	taacaaatac	480
aaggctcttt caaaagctcc	tatagggaat	acaaaatttc	cccatctcct	tataccagaa	540
aacaaagtta tttacaattc	atcttaagtc	tcttaatgat	ctcaagggtc	ttctgaaaga	600

PLA US OSO22 ST25	
PLA_US_0502a ST25 gattgctaat aaaatcaaat aaaactgtat gaactctaat ggagaaaaat ctaattatag	660
caagatcata ttaaggaatg ctgatgaaca attttgctat cgactactaa atgagagatt	720
ttcagacccc tgggtacatg gtggatgatt ttaaatcacc ctagtgtgct gagaccttga	780
gaataaagtg tgtgattggt ttcatacttg aagacggata taaaggaaga atatttcctt	840
tatgtgtttc tccagaatgg tgcctgtttc tctctgtgtc tcaatgcctg ggactggagg	900
ttgatagttt aagtgtgttc ttaccgcctc ctttttcctt taatcttatt tttgatgaac	960
acatatatag gagaacatct atcctatgaa taagaacctg gtcatgcttt actcctgtat	1020
tgttattttg ttcatttcca attgattctc tacttttccc ttttttgtat tatgtgacta	1080
attagttggc atattgttaa aagtctctca aattaggcca gattctaaaa catgctgcag	1140
caagaggacc ccgctctctt caggaaaagt gttttcattt ctcaggatgc ttcttacctg	1200
tcagaggagg tgacaaggca gtctcttgct ctcttggact caccaggctc ctattgaagg	1260
aaccaccccc attcctaaat atgtgaaaag tcgcccaaaa tgcaaccttg aaaggcacta	1320
ctgactttgt tcttattgga tactcctctt atttattatt tttccattaa aaataatagc	1380
tggctattat agaaatttag accatacaga gatgtagaaa gaacataaat tgtccccatt	1440
accttaaggt aatcactgct aacaatttct ggatggtttt tcaagtctat tttttttcta	1500
tgtatgtctc aattctcttt caaaatttta cagaatgtta tcatactaca tatatacttt	1560
ttatgtaagc tttttcactt agtattttat caaatatgtt tttattatat tcatagcctt	1620
cttaaacatt atatcaataa ttgcataata ggcaacctct agcgattacc ataattttgc	1680
tcattgaagg ctatctccag ttgatcattg ggatgagcat ctttgtgcat gaatcctatt	1740
gctgtatttg ggaaaatttt ccaaggttag attccaataa atatctattt attattcaat	1800
attaaaaaaa aaa	1813
<210> 5 <211> 986 <212> DNA <213> Homo sapiens <400> 5	
acctggctaa tttttgtatt tttagtagac acggggtttc accatgttgg ccaggctggt	60
ctcgaactcc tgacctcagg tgatttgcct gcctcggcct cccaagtgtt gggattacag	120
gcgtgaacca ccgtgtccgg cctcaggttt tcttaattgc agagcttagt gtggtatact	180
ttctgaaggt atctaacagg gaataggggc aaacaaatag ctgcatgctc ctgtcatagt	240
ccaccagcta tgatctgctt aaaacagctg cctgctggtc gccatgtttg gctacacggt	300
gggcaccgtc caggagaaca atgaccaggt ctggaagttc cagaggtact tcctggtgca	360
ggagtactgc agccgcctca atatcccctt ccccttcatc gtcttcgctt acttctacat	420

ggtggtgaag	aagtgcttca	agtgttgctg	PLA_US_050 caaggagaaa	2a ST25 aacatggagt	cttctgtctg	480
ctgtttcaaa	aatgaagaca	atgagactct	ggcatgggag	ggtgtcatga	aagaaaacta	540
ccttgtcaag	atcaacacaa	aaaccaacga	cacctcagag	gaaatgaggc	atcgatttag	600
acaactggat	acaaagatca	tattaaggaa	tgctgatgaa	caattttgct	atcgactact	660
aaatgagaga	ttttcagacc	cctgggtaca	tggtggatga	ttttaaatca	ccctagtgtg	720
ctgagacctt	gagaataaag	tgtgtgattg	gtttcatact	tgaagacgga	tataaaggaa	780
gaatatttcc	tttatgtgtt	tctccagaat	ggtgcctgtt	tctctctgtg	tctcaatgcc	840
tgggactgga	ggttgatagt	ttaagtgtgt	tcttaccgcc	tcctttttcc	tttaatctta	900
tttttgatga	acacatatat	aggagaacat	ctatcctatg	aataagaacc	tggtcatgct	960
ttaaaaaaaa	aaaaaaaaa	aaaaaa				986
	sapiens					
<400> 6 ggcacgaggc	tgcctttctc	caccagagac	tcttcctcag	ggaggacttg	gtgaatttta	60
ttcaagcaaa	ttttaagaaa	cgagaatgtg	tcttctttac	caaagattcc	aaggccacgc	120
tcaatgaaat	ccttccttcc	tgtccacacc	atcgtgctta	tcagggagaa	tgtgtgcaag	180
tgtggctatg	cccagagcca	gcacatggaa	ggcacccaga	tcaaccaaag	tgagaaatgg	240
aactacaaga	aacacaccaa	ggaatttcct	accgacgcct	ttggggatat	tcagtttgag	300
acactgggga	agaaagggaa	gtatatacgt	ctgtcctgcg	acacggacgc	ggaaatcctt	360
tacgagctgc	tgacccagca	ctggcacctg	aaaacaccca	acctggtcat	ttctgtgacc	420
gggggcgcca	agaacttcgc	cctgaagccg	cgcatgcgca	agatcttcag	ccggctcatc	480
tacatcgcgc	agtccaaagg	tgcttggatt	ctcacgggag	gcacccatta	tggccgatga	540
agtacatcgg	ggaggtggtg	agagataaca	ccatcagcag	gagttcagag	gagaatattg	600
tggccattgg	catagcagct	tggggcatgg	tctccaaccg	ggacaccctc	atcaggaatt	660
gcgatgctga	ggtaccggtg	ggacaggagg	aggtctgcta	ggtcacatgg	aagaaagacc	720
atggcatggg	cctgtggcct	gaaccctggg	gctctgtgat	ggagccagcc	agatcatggg	780
gaagtctgcc	tttcaaggag	tgcctttggg	accttaaagg	aattgaaaac	aaggatgacg	840
tacctaatta	actgctggga	aagagttaac	aatgaatgtt	ttgttcatta	aaatgtgttc	900
tcagcaatct	caaaaaaaa	aaaaaaaa				929

<sup>&</sup>lt;210> 7 <211> 735 <212> DNA

735

	·					
<400> 7 ttggccttca	gagcaaagaa	ggagatctgc	atctctacac	ccagatggag	aatcaccctc	60
actttgcagc	tgaaggcaat	gtggagttga	tgttatttta	taccatttat	ttttattatc	120
tcttcacaac	aaacctacta	agtcaatgtt	atgattccat	gctgcaaaca	aggaaattaa	180
gcctcagcaa	tcctgatatt	ctggaacaga	acaatccttt	aagagatttg	gtattgaaga	240
ccttgttgga	aatggatcag	acattgccca	gaccactgtc	cagacccaac	actggaataa	300
cccaggagag	cttcgtgctt	acctcccatc	ggcggtcatt	ggtgaaaatc	tcatcattgg	360
ctaagtccag	ctggttccac	tccagcagaa	gcttcagctg	cccattccag	ttatccttgt	420
cttgctcact	ggtgctgaag	gctgtgagag	ggcaggaaaa	gactcaactc	accaaaggct	480
cagaaataag	agtgagaacc	attcagtgtg	gccaattatc	agagctgttt	atcacagatc	540
gtatttgttc	ttaaatggta	tctaccagaa	gaagacagcc	agctttcgat	actaacaaac	600
cacaatggaa	gatggccgta	tttatcattg	cctttagcat	gttaaagggt	acataccaca	660
ttgaccctgg	cagaagcatt	cctgatgtgt	tggaaaaatt	aagagaaata	acagttcttt	720
ggcaataaaa	aaaaa					735

<210> 8 <211> 84 <212> PRT

<213> homo sapiens

<213> homo sapiens

<400> 8

Gly Leu Gln Ser Lys Glu Gly Asp Leu His Leu Tyr Thr Gln Met Glu 10 15

Asn His Pro His Phe Ala Ala Glu Gly Asn Val Glu Leu Met Leu Phe 20 30

Tyr Thr Ile Tyr Phe Tyr Tyr Leu Phe Thr Thr Asn Leu Leu Ser Gln 40 45

Cys Tyr Asp Ser Met Leu Gln Thr Arg Lys Leu Ser Leu Ser Asn Pro 50 60

Asp Ile Leu Glu Gln Asn Asn Pro Leu Arg Asp Leu Val Leu Lys Thr 70 75 80

Leu Leu Glu Met

<210> 9 <211> 249

<212> DNA <213> Homo sapiens	
<400> 9	
gtaccggtgg gacaggagga ggtctgctag gtcacatgga agaaagacca tgg	catgggc 60
ctgtggcctg aaccctgggg ctctgtgatg gagccagcca gatcatgggg aagt	tctgcct 120
ttcaaggagt gcctttggga ccttaaagga attgaaaaca aggatgacgt acct	taattaa 180
ctgctgggaa agagttaaca atgaatgttt tgttcattaa aatgtgttct cag	caaaaaa 240
aaaaaaaa	249
<210> 10 <211> 115 <212> DNA <213> Homo sapiens	
<400> 10 Qtacaaacca aggracataa togtgtgtgta gtgtgtgtgtg cagtgtgtgt	
gtacaaacca aggcacataa tcgtgtgtga gtgtgtgtgc cagtgtgtgt acat	
acatatgtgt gctctcatgt aaatgattaa aaagcctgga acttaaaaaa aaaa	aa 115
<210> 11 <211> 127 <212> DNA <213> Homo sapiens	
<400> 11 gtaagcctga cttggctcag atggaaacag cttggaggag gcatttgctc cctg	1226622 60
cccccagggc tgccccggag accgcacttc agaagcacgc gcgtgaaacg gagt	
taacaga	120 127
	127
<210> 12 <211> 571 <212> DNA <213> Homo sapiens	
<400> 12	
gctagaattt accagtaagc catctgattt cccagtaagc catcctgggc tttt	
tgaaagcttt ttgattgctg attttcattt tcttcatttg ttgtttgtct gttc	
tgtatttctt cttgattcag gtctttgtaa gttgtacatt tctgggatat ttcc	
tctaggttgt ccaccttgtt tgcatataat tgttcatact agccccttct gatc	
atttctatgc cctctgttgt aaggttgtct ttctcatttc tgactgtatt tatt	-
ttcttccttt tcttaaaagg tttgttgatt ttgtttatct tttcaaaaaa ccaa	
ctttcaatga tttttttcc cattgttttt caactctctt ttttaaaaat gtat	_
cttggagttt ttgctctact ttaaacagct tactaaagtc attttactat taac	
aaggctcttt caaaagctcc tatagggaat acaaaatttc cccatctcct tata	ccagaa 540

aacaaagtta	tttacaattc	atcttaagtc	PLA_US_050 t	02a ST25		571
<210> 13 <211> 271 <212> DNA <213> Hom						
<400> 13 acctggctaa	tttttgtatt	tttagtagac	acggggtttc	accatgttgg	ccaggctggt	60
	tgacctcagg					120
	ccgtgtccgg					180
	atctaacagg					240
	tgatctgctt					271
<210> 14 <211> 35 <212> DNA <213> Hom	o sapiens					
<400> 14	CCaccadada	ctcttcctca	aaaaa			2.5
cigocicico	ccaccagaga	ciciccica	yggag			35
<210> 15 <211> 46 <212> DNA <213> Hom						
<400> 15 gctcaatgaa	atccttcctt	cctgtccaca	ccatcgtgct	tatcag		46
<210> 16 <211> 255 <212> DNA <213> Hom						
<400> 16	03.03.003.003	aatstastaa	****			
	gacaggagga					60
	aaccctgggg					120
	gcctttggga					180
	agagttaaca	atgaatgttt	tgttcattaa	aatgtgttct	cagcaatctc	240
aaaaaaaaa	addad					255
<210> 17 <211> 128 <212> DNA <213> Home	o sapiens					
<400> 17 tcaggttttc	ttaattgcag	agcttagtgt	ggtatacttt	ctgaaggtat	ctaacaggga	60

ataggggcaa	acaaatagct	gcatgctcct	PLA_US_0502a ST25 gtcatagtcc accagctatg	atctgcttaa	120
aacagctg					128